

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5

PANASENKO, S.I., inzh.; AKSENOV, I.M., inzh.

Mine testing of new types of steel supports. Ugol' Ukr 4  
no.2:35-37 F '60. (MIRA 13:6)  
(Mine timbering--Testing)

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CIA-RDP86-00513R000100720006-5

AKSENOV, I.N.

Four-blade cutting attachment for simultaneous processing of three  
allotments [Suggested by I.N. Aksenov] Rats. i izobr. predl. v  
stroi. no.6:72-77 '58. (MIR 11:10)  
(Planing machines--Attachments)

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CIA-RDP86-00513R000100720006-5"

FINKEL'SHTEYN, M.M., inzh.; Prinimali uchastliye: DOLGOKER, Yu. P.;  
PASHUTIN, N.V.; VOLOBUYEV, N.A.; DOLMAT, L.B.; ADAMKOVICH, V.K.;  
AKSENOV, I.N.

New steels for the automatic electric hard facing of rolls for  
continuous slabbing and blooming mills. Stal '21 no.6:535-538  
Je '61. (MIRA 14:5)

1. Makeyevskiy metallurgicheskiy zavod.  
(Rolls (Iron mills))  
(Hard facing)

AKSENOV, I.N.

Hard facing of iron mill rolls. Avtom.svar. 15 no.5:64-67 My  
'62. (MIRA 15:4)

1. Makeyevskiy metallurgicheskiy zavod imeni S.M.Kirova.  
(Rolls (Iron mills)) (Hard facing)

S/130/63/000/001/006/008  
A006/A101

AUTHOR: Aksenov, I. N.

TITLE: Electric hardfacing of blooming mill rolls

PERIODICAL: Metallurg, no. 1, 1963, 28 - 29

TEXT: At the Makeyevka Metallurgical Plant, 50-grade steel blooming-mill rolls are hardfaced on a special unit to raise their durability. An A-384 electric hardfacing torch is mounted on the K3TC (KZTS) roll-lathe. Prior to hardfacing the roll is machined on the roll-lathe to remove surface defects and cracks. It is then mounted on a stand and heated to 390 - 400°C. for 24 hours. The preheated roll is then mounted on the hard-facing unit. The first groove is hardfaced with 5X4B3Φ (5Kh4V3F) powder wire under AH-20 (AN-20) flux. The second, third and fourth grooves of the roll are hardfaced with 30 XFCA (30KhGSA) wire under AH-348 (AN-348) flux. To save alloyed wire, the so-called bed is hardfaced with CB08 (Sv08) wire or 30 KhGSA wire at the groove bottom and crimp; then a 5 - 7 mm thick layer is hardfaced with 30 KhGSA wire again on the groove bottom. Subsequently the grooving and cutting is performed on this softer

Card 1/2

AKSENOV, I. P.

Gruzovaia ustoychivost' strelovykh peredvizhnykh kranov [Load stability of traveling cranes with jibs]. Moskva, Mashgiz, 1952. 152 p.

SO: Monthly List of Russian Accessions, Vol 6 No 6 September 1953

*Akseenov, I.P.*

NIKOLAYEVSKIY, G.M., kandidat tekhnicheskikh nauk; ALEKSANDROV, M.P.,  
kandidat tekhnicheskikh nauk; AKSENOV, I.P., kandidat tekhnicheskikh  
nauk; MEKLER, A.G., kandidat tekhnicheskikh nauk; SPITSYNA, I.O.,  
kandidat tekhnicheskikh nauk; ZORINA, Z.M., inzhener; VOROBKOV, G.N.,  
inzhener; IVASHKOV, I.I., kandidat tekhnicheskikh nauk; POLKOVNIKOV,  
V.S., kandidat tekhnicheskikh nauk; MODEL', B.I., tekhnicheskiy  
redaktor

[Calculations for crane mechanisms and parts for hoisting and  
conveying machines] Raschety kranovykh mekhanizmov i detalei  
podzemno-transportnykh mashin. Moskva, Gos.nauchno-tekhn.izd-vo  
mashinostroit.lit-ry, 1957. 435 p. (MIRA 10:8)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut podzemno-  
transportnogo mashinostroyeniya  
(Cranes, derricks, etc.)

NIKOLAYEVSKIY, G.M., kand.tekhn.nauk; SNESAREV, G.A., kand.tekhn.nauk;  
BALASHOV, V.P., kand.tekhn.nauk; AKSEHOV, I.P., kand.tekhn.nauk;  
MEKKER, A.G., kand.tekhn.nauk; SPITSIMA, I.O., kand.tekhn.nauk;  
ZORIN, Z.M., inzh.; VOROBKOV, G.N., inzh.; IVASHKOV, I.I., kand.  
tekhn.nauk; OSIPOVA, L.A., red.izd-va; MODEL', B.I., tekhn.red.

[Design of crane mechanisms and parts of hoisting and conveying  
machinery] Raschety kranovykh mehanizmov i detalei pod"emno-  
transportnykh mashin. Izd.2., perer. i dop. Moskva, Gos.nauchno-  
tekhn.izd-vo mashinostroit.lit-ry, 1959. 493 p.

(MIRA 13:11)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut  
pod"zemno-transportnogo mashinostroyeniya.

(Cranes, derricks, etc.) (Hoisting machinery)  
(Conveying machinery)

KHRIPIN, A.I., gornyy inzh.; AKSENOV, I.V.

Using a precast reinforced concrete lining. Ugol' 38 no.15  
19-22 Ja '63. (MIRA 18:3)

1. Institut gornogo dela im. A.A. Skochinskogo (for Khripin).
2. Tekhnicheskoye upravleniye kombinata Tulaugol' (for Aksnov).

AKSENOV, I. IA.

K voprosu ob organizatsii perevozok po seti Uralo-Sibirskego kombinata, The question of organization of transport in the network of the Ural-Siberian combine.  
(Sots. transport, 1934, no. 9. p. 51-65 and no. 10, p. 83-90, sketch)/

DLG: HE7.S6

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress Reference Department, Washington, 1952, Unclassified.

AKSENOV, I. V.

Stoletie russkikh zheleznykh dorog. A century of Russian railroads. (Sots. transport, 1938, no. 4, p. 5-19).

DLC: HE7.S6

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

AKSENOV, I. IA.

Metod Krasnova-Kozhukharia. The method of Krasnov-Kozhukhar'. 2. perer. i dop.  
izd. Moskva, Transzhel'dorizdat, 1940. 114 p. illus., diagrs.

DLC: TF85.A6 1940

SO: SOVIET TRANSPORTATION AND COMMUNICATIONS. A BIBLIOGRAPHY, Library of Congress  
Reference Department, Washington, 1952, Unclassified.

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CIA-RDP86-00513R000100720006-5

AKSENOV, I. Ya.

AKSENOV, I. IA. An aid for the study of the principles of technical operation of railroads in the USSR Moskva, Transzheldorizdat, 1943. 394 p. (47-44568)

TF505.A45

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5"

AKSENOV, I. Ya.

Nekotorye voprosy bor'by s zimnimi trudnostiami v eksploatacionnoi rabote.  
/Certain aspects of the struggle with difficulties in winter operation/.  
(Zhel-dor. transport, 1944, no. 1, p. 21).

DLC: HE7.25

SO: SOVIET TRANSPORTATION AND COMMUNICATIONS, A BIBLIOGRAPHY, Library of Congress  
Reference Department, Washington, 1952, Unclassified.

AKSENOK, I. A.

Posobie dlja izuchenija pravil tekhnicheskoi ekspluatatsii zheleznykh dorog SSSR.  
Manual for study of principles of technical operation of railroads in the U.S.S.R.,  
Utverzhdeno v kachestve posobiia dlja rabotnikov veduschikh professii zhel-dor. izd-vo,  
1945. 395 p. illus.

DLC: TF505.A45 1945

Posobie dlja izuchenija pravil tekhnicheskoi ekspluatatsii zheleznykh dorog SSSR.  
Manual for study of principles of technical operation of railroads in the U.S.S.R.,  
4. izd. Utverzhdeno v kachestve posobiia dlja rabotnikov veduschikh professii zhel-dor.  
transporta. Moskva, Gos. transp. zhel-dor. izd-vo, 1947. 479 p. illus.

DLC: TF505.A45 1947

Posobie dlja izuchenija pravil tekhnicheskoi ekspluatatsii zheleznykh dorog SSSR.  
Manual for study of principles of technical operation of railroads in the U.S.S.R.,  
5. ed. 5. izd., ispr. i dop. Moskva, Gos. transp. zhel-dor. izd-vo, 1949. 529 p.  
illus.

DLC: TF505.A45 1949

Tekhnicheskaja ekspluatatsija zheleznykh dorog SSSR. Technical operation of the  
railroads of the U.S.S.R. Posobie dlja izuchenija pravil tekhnicheskoi ekspluatatsii  
zheleznykh dorog SSSR. Pod obshchei red. V.N. Obraztsova i B.V. Isaeva. Moskva,  
Transzhelizdat, 1939. 382 p. illus.

DLC: TF85.A62

SO: Soviet Transportation and Communications. A Bibliography, Library of Congress  
Reference Department, Washington, 1952, Unclassified.

AKSENOV, I.Ya.

Usilit' bor'bu s neravnomernost'iu v rabote dorog. [ Fighting irregularity in railroad operation ]. (Zheleznod. transport, 1946, no. 8-9, p. 19-29.)  
Discusses monthly and daily variations in railroad operation.

DLC: HE7.25

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress  
Reference Department, Washington, 1952, Unclassified.

AKSENOV, I.Ya.; SUYAZOV, I.G.; Dlugach, B.A., red.; KHITROV, P.A., tekhn.  
red.

[Aid for the study of the regulations for the construction and operation of railroads in the U.S.S.R.] Posobie dlia izuchenia pravil  
tekhnicheskoi ekspluatatsii zheleznykh dorog SSSR. Moskva, Gos.  
transp. zhel.-dor. izd-vo, 1947. 479 p. (MIRA 14:8)  
(Railroad engineering)

Y  
AKSENOV, I. IA.

osobennosti novogo plana formirovaniia poezdov. Special features of the new plan for making up trains. (Zhel.-dor. transport, 1947, no. 4, p. 10-18).

DLC: HE7.Z5

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress Reference Department, Washington, 1952, Unclassified.

AKSENOV, I. (r.)

ZEMBLINOV, S., professor, doktor tekhnicheskikh nauk; AKSENOV, I., kandidat  
tekhnicheskikh nauk

Interrelationship of railroad stations and car repair installations.  
S.Buzanov. Reviewed by S.Zemblinov, I.Aksenov. Zhel.dor.transp.  
no.10:94-95 0'47.

(MIRA 8:12)

(Railroads--Cars--Maintenance and repair)

AKSENOV, I.Ya., kandidat tekhnicheskikh nauk

Speeding up railroad car turnover is the most important task in  
the railroad transport industry. Tekh.zhel.dor.7 no.8:1-4 Ag'48.  
(Railroads--Cars) (MIRA 8:11)

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CIA-RDP86-00513R000100720006-5

AKSENOV, I. Ya.

AKSENOV, I. Ya. An aid for the study of the principles of technical operation of railroads in the USSR 5. izd., ispr. i dop. Moskva, Gos. transp. zhel-dor. izd-vo, 1949. 529 p. (50-31111)

TF505, A45 1949

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5"

AKSENOV, Ivan Yakovlevich; TSARENKO, A.P., inzh., red.; VERINA,  
G.P., tekhn. red.

[Brief handbook of the indices of railroad operations]  
Kratkii spravochnik pokazatelei ekspluatatsionnoi raboty  
zheleznykh dorog. Moskva, Transzhelizdat, 1954. 176 p.  
(MIRA 16:7)

(Railroads--Management)

AKSENOV, I.Ya.

[Short reference book of operation indices for railroads]  
Kratkii spravochnik pokazatelei ekspluatatsionnoi raboty zheleznykh dorog. Moskva, Transzheldorizdat, 1954. 180 p. (MIRA 7:12D)

AKSERNOV, I.Ya.; SUYAZOV, I.G.; GORODNICHIEV, N.G., redaktor; KHATSKIE-  
LEVICH, M.N., redaktor.

[Manual for learning rules of the technical operation of rail-  
roads in the Soviet Union] Posobie dlja izuchenija pravil tekhnicheskoi eksploatatsii zheleznykh dorog Soiuza SSR. 7 izd., perer.  
1 dop. Moskva, Gos. transp. i zhel-dor izd-vo, 1954. 614 p.  
(Railroads)

(MLRA 7:8)

AKSENOV, Ivan Yakovlevich; SUYAZOV, Ivan Grigor'yevich; KHATSKLEVICH, M.N.,  
redaktor; TSARENKO, A.P., redaktor; VERINA, G.P., tekhnicheskiy  
redaktor

[A manual for the study of the principles of the technical operation  
of Soviet railroads] Posobie dlja izuchenija pravil tekhnicheskoi  
eksploatatsii zheleznykh dorog Soiusa SSR. Izd. 2-oe, perer. i dop.  
Moskva, Gos. transp.zhel-dor. izd-vo, 1956. 482 p. (MIRA 10:1)  
(Railroads--Management)

AKSENOV, I.Y.

BENESHEVICH, I.I., kandidat tekhnicheskikh nauk; BOGIN, N.H., kandidat tekhnicheskikh nauk; BYKOV, Ye.I., inzhener; VLASOV, I.I., kandidat tekhnicheskikh nauk; GRITSEVSKIY, M.Ye., inzhener; GRUBER, L.O., inzhener; GURVICH, V.G., inzhener; DAVYDOV, V.N., inzhener; YER-SHOV, I.M., kandidat tekhnicheskikh nauk; ZASORIN, S.N., kandidat tekhnicheskikh nauk; IVANOV, I.I., kandidat tekhnicheskikh nauk; KRAUKLIS, A.A., inzhener; KROTOV, L.B., inzhener; LAPIN, V.B., inzhener; LASTOVSKIY, V.P., dotsent; LATUNIN, N.I., inzhener; MARKVARDT, K.G., professor, doktor tekhnicheskikh nauk; MAKHAYLOV, M.I., professor, doktor tekhnicheskikh nauk; NIKANOROV, V.A., inzhener; OSKOLKOV, K.N., inzhener; OKHOSHIN, L.I., inzhener; PARFENOV, K.A., dotsent, kandidat tekhnicheskikh nauk; PERTSOVSKIY, L.M., inzhener; POPOV, I.P., inzhener; PGRSHNEV, B.G., inzhener; RATNER, M.P., inzhener; ROSSIYEVSKIY, G.I., dotsent, kandidat tekhnicheskikh nauk; RYKOV, I.I., kandidat tekhnicheskikh nauk; RYSHKOVSKIY, I.Ya., dotsent, kandidat tekhnicheskikh nauk; RYABKOV, A.Ya., professor [deceased]; TAGER, S.A., kandidat tekhnicheskikh nauk; KHAZEN, M.M., professor, doktor tekhnicheskikh nauk; CHERNYSHEV, M.A., doktor tekhnicheskikh nauk; KBIN, L.Ye., professor, doktor tekhnicheskikh nauk; YUGNEV, B.N., dotsent; AKSENOV, I.Ya., dotsent, kandidat tekhnicheskikh nauk; ARKHANGEL'SKIY, A.S., Inzhener; BARTENEV, P.V., professor, doktor tekhnicheskikh nauk; BERNARD, K.A., kandidat tekhnicheskikh nauk; BOROVAY, N.Ye., dotsent, kandidat tekhnicheskikh nauk; BOGDANOV, I.A., inzhener; BOGDANOV, N.K., kandidat tekhnicheskikh nauk; VIMNICHENKO, N.G., dotsent, kandidat ekonomiceskikh nauk;

(Continued on next card)

RENESHEVICH, I.I.----(continued) Card 2.

VASIL'YEV, V.P.; GONCHAROV, N.G., inzhener; DERIBAS, A.T., inzhener; DOBROSEL'SKIY, K.M., dotsent, kandidat tekhnicheskikh nauk; DLUGACH, B.A., kandidat tekhnicheskikh nauk; YEFIMOV, G.P., kandidat tekhnicheskikh nauk; ZEMBLINOV, S.V., professor, doktor tekhnicheskikh nauk; ZABELLO, M.L., kandidat tekhnicheskikh nauk; IL'IN, K.P., kandidat tekhnicheskikh nauk; KARPTNIKOV, A.D., kandidat tekhnicheskikh nauk; KAPLUN, F.Sh., inzhener; KANSHIN, M.D.; KOCHNEV, F.P., professor, doktor tekhnicheskikh nauk; KOGAN, L.A., kandidat tekhnicheskikh nauk; KUCHURIN, S.F., inzhener; LEVASHOV, A.D., inzhener; MAKSIMOVICH, B.H., dotsent, kandidat tekhnicheskikh nauk; MARTYNOV, M.S., inzhener; MEDAL', O.M., inzhener; NIKITIN, V.D., professor, kandidat tekhnicheskikh nauk; PADNYA, V.A., inzhener; PANTELEYEV, P.I., kandidat tekhnicheskikh nauk; PASTROV, A.P., professor, doktor tekhnicheskikh nauk; POVOROZHENKO, V.V., professor, doktor tekhnicheskikh nauk; PISKAREV, I.I., dotsent, kandidat tekhnicheskikh nauk; SERGEYEV, Ye.S., kandidat tekhnicheskikh nauk; SIMONOV, K.S., kandidat tekhnicheskikh nauk; SIMANOVSKIY, M.A., inzhener; SUYAZOV, I.G., inzhener; TALDAYEV, F.Ya., inzhener; TIKHONOV, K.K., kandidat tekhnicheskikh nauk; USHAKOV, N.Ya., inzhener; USPENSKIY, V.K., inzhener; FEL'DMAN, E.D., kandidat tekhnicheskikh nauk; YERAPONTOV, G.V., inzhener; KHOKHLOV, L.P., inzhener; CHERNOMORDIK, G.I., professor, doktor tekhnicheskikh nauk; SHAMAYEV, M.F., inzhener; SHAFIRKIN, B.I., inzhener; YAKUSHIN, S.I., inzhener; GRANOVSKIY, P.G., redaktor; TISHCHENKO, A.I., redaktor; ISAYEV, I.P., dotsent, kandidat tekhnicheskikh nauk, redaktor; KLIMOV, V.F., dotsent kandidat tekhnicheskikh

(Continued on next card)

BENESHEVICH, I.I.--- (continued) Card 3.

nauk, redaktor; MARKOV, M.V., inzhener, redaktor; KALININ, V.K.,  
inzhener, redaktor; STEPANOV, V.N., professor, redaktor; SIDOROV, N.I.,  
inzhener, redaktor; GERONIMUS, B.Ye., kandidat tekhnicheskikh nauk,  
redaktor; ROBEL', R.I., otvetstvennyy redaktor

[Technical reference manual for railroad engineers] Tekhnicheskii  
spravochnik zheleznozdrozhnika. Moskva, Gos. transp. zhel-dor. izd-vo.  
Vol.10. [Electric power supply for railroads] Energosnabzhenie zhelez-  
nykh dorog. Otv.red. toma K.G. Markvardt. 1956. 1080 p. Vol.13.  
[Operation of railroads] Eksploatatsiya zheleznykh dorog. Otv. red.  
toma R.I.Robel'. 1956. 739 p. (MLRA 10:2)

1. Chlen-korrespondent Akademii nauk SSSR (for Petrov)  
(Electric railroads) (Railroads---Management)

ZEMBLINOV, S.V., professor, doktor tekhnicheskikh nauk; AKSENOV, I.Ya.,  
kandidat tekhnicheskikh nauk; POLYAKOV, A.A., kandidat tekhnicheskikh  
nauk; TAL', K.K., kandidat tekhnicheskikh nauk.

More on the construction of railroad lines in the Moscow rail  
system. Zhel. dor. transp. 38 no.8:41-45 Ag '56. (MLRA 9:10)

(Moscow--Railroads)

*AKSENOV, I. Ya.*

AKSENOV, I. Ya., kand. tekhn. nauk.

Information methods for the movement of trains and cars on the  
railroads of the U.S.A. Zhel. dor. transp. 39 no.12:82-86 D '57.  
(United States--Railroads--Traffic) (MIRA 11:1)

AKSENOV, I.Ya., kand. tekhn. nauk

Computers and some prospects for their use in transportation. Avtom.  
telem. i sviaz' 3 no.11:14-16 N '59  
(MIRA 13:3)  
(Electronic calculating machines)  
(Transportation)

28(1), 28(0)

AUTHOR: Aksenov, I. Ya., Candidate of Technical Sciences SOV/30-59-1-20/57

TITLE: International Congress of Cybernetics (Mezhdunarodnyy kongress po kibernetike)

PERIODICAL: Vestnik Akademii nauk SSSR, 1959, Nr 1, pp 101 - 104 (USSR)

ABSTRACT: The 2nd Congress of the International Union of Cybernetics took place in Namur (Belgium) on September 3-10, 1958. 300 delegates from 27 countries took part. At the plenary meetings of the Congress, general questions of cybernetics and their connection with technical, economic and biological sciences, as well as with philology, were mainly discussed. The majority of the reports were discussed in the following 6 committees of the Congress: Information, automatic machines, automatization of manufacture, economic and social consequences of automatization, cybernetics and social sciences, cybernetics and biology. Besides the western scientists who gave the greater part of talks, the author mentions Yu. Ya. Bazilevskiy (USSR) who reported on temporary logical functions and the structural transformation of automatons. F. Svoboda (Czechoslovakia)

Card 1/2

AKSENOV, I. YA., BAZILEVSKIY, YU. YA.

"On the Second International Congress on Cybernetics," Problemy kibernetiki.  
Sbornik statey. /Problems of Cybernetics. Collected Articles/, Fizmatgiz  
[State Publishing House for Physical and Mathematical Literature], Moscow,  
1959, No. 2, Pages 311 - 319.

32(0)

SOV/30-59-6-17/40

AUTHOR:

Aksenov, I. Ya., Candidate of Technical Sciences

TITLE:

News in Brief (Kratkiye soobshcheniya). Conference on the Application of Methods of Cybernetics for Transportation and the Construction of Means of Transportation (Soveshchaniye po primeneniyu metodov kibernetiki na transporte i v transportnom stroitel'stve)

PERIODICAL:

Vestnik Akademii nauk SSSR, 1959, № 6, pp 111-112 (USSR)

ABSTRACT:

The Conference took place from March 10 to 12 in Budapest. K. Kádas reported on some theoretical and practical tasks in this field. At present methods of cybernetics for transportation are being developed at the Institut kompleksnykh transportnykh problem Akademii nauk SSSR (Institute for Comprehensive Transportation Problems of the Academy of Sciences of the USSR). G. Jandy spoke of methods of linear programming for setting up an optimum transportation plan. I. Turányi discussed problems of the remote control of railroad traffic. T. Márfaí explained the application possibilities of cybernetics in the planning of highways and for traffic. Ya. Szabó reported on the application of cybernetic methods for

Card 1/2

AKSENOV, I.Ya., kand. tekhn. nauk

Rolling stock to keep pace with technical progress in railroads.  
Zhel. dor. transp. 41 no.10:49-54 O '59.

(Railroads--Rolling stock)

(MIRA 13:2)

PHASE I BOOK EXPLOITATION SOV/3996

Aksenov, Ivan Yakovlevich, Candidate of Technical Sciences

Kibernetika na transporte (Cybernetics and Transportation) Moscow,  
Izd-vo "Znaniye," 1960. 39 p. (Series: Vsesoyuznoye obshchestvo  
po rasprostraneniyu politicheskikh i nauchnykh znanii, Seriya 4,  
Nauka i tekhnika, no. 8) 45,000 copies printed.

Ed.: T.F. Islankina; Tech. Ed.: L.Ye. Atroshchenko.

PURPOSE: This booklet is intended for the general reader.

COVERAGE: The first five sections briefly describe, in popular form, the principles and development of cybernetics and their application in various fields. The booklet goes on to describe the present state and the future of various means of transportation in the USSR. The last 10 sections deal in detail with the utilization of computers in railroad transportation, and some information is given on their use in regulating urban traffic. Brief mention is made of a computing machine in New York for anti-air-

Card 1/3

PETROV, A.P., prof., red.; AKSENOV, I.Ya., kand. tekhn. nauk, red.;  
GUBAREVA, N.T., red.; BOBROVA, Ye.N., tekhn. red.

[Cybernetics and the automation of transportation] Kibernetika i  
avtomatizatsiya transportnykh protsessov; sbornik statei. Mo-  
skva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniya,  
1960. 274 p. (MIRA 14:7)

1. Chlen-korrespondent AN SSSR (for Petrov)  
(Cybernetics) (Automation)  
(Electronic calculating machines) (Transportation)

AKSENOV V.YA.

- R. P. Williams, Second International Congress on Cybernetics (1 March 1959). Contents of the paper were published in the second issue of Problemy Kibernetiki in the American section.
- Communication of I. A. Polozayev's book Signal (17 October 1959).
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- A. M. Perovskiy, Report on the Mission to the US (14 November 1959).
- On the Basis Computer and S.-V. Tolokonnikov, Problem of the Systematization of the Basic Concepts of Cybernetics (28 November 1959).
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- (Dr. A. Shreider), Means of Developing the Structure of Computers (26 December 1959).
- A. P. Tret'yan, Report on the Cybernetics Symposium in London (25 December 1959).
- M. G. Gerasimov, Report on Certain Problems of the Behavior of Living Organisms (13 February 1959).
- F. D. Koriatavich, Cybernetic Problematic Topics in Economics (27 February 1959).
- D. I. Tolokonnikov, The Role of Technical Means of Weight and Speed in River Canal Navigation Aid of Electronic Digital Computers (13 March 1959).
- On V. S. Savchenko, Electrical Simulation of Certain Self-Adaptive Systems (10 April 1959); a part will be published in Problemy Kibernetiki No. 5/1959.
- A. A. Zhdanov, O. Ya. Koriatavich and E. N. Moloshanskii, Report on the National Conference on Problems of Mathematical Linguistics (26 April 1959, et., 29-30 April 1959) at this book.

Report presented at the Moscow University Seminar on Cybernetics during 1959-59

Report presented at the Moscow University Seminar on Cybernetics during 1959-59

AKSENOK, I. YA. (Candidate of Sciences)

"On the Second International Congress on Cybernetics, Held in

1. From Material of the Delegation from the Academy of Sciences USSR).

x Pilosofskiye voprosy kibernetiki (Philosophical Problems of Cybernetics),  
Publishing House of Socio-Economic Literature, Moscow, 1961 392 p.

AKSENQV, I.Ya., kand.tekhn.nauk; MOKSHIN, L.S.; SHESTAKOV, A.I.;  
TIKHONOV, K.K., kand.tekhn.nauk

Train traffic organization on lines with lengthened hauls. Zhel.  
dor. transp. 43 no. 1:21-28 Ja '61. (MIRA 14:4)

1. Nachal'nik sluzhby dvizheniya Kuybyshevskoy dorogi (for Mokshin).
2. Glavnnyy inzhener Omskoy dorogi (for Shestakov).  
(Railroads-Traffic)

AKSENOV, Ivan Yakovlevich, kand. tekhn. nauk; PRIGOROVSKIY, V.F.,  
red.; VERINA, G.P., tekhn. red.

[Organization and management of freight transportation on  
railroads abroad] Regulirovaniye perevozok na zarubezhnykh  
zheleznykh dorogakh. Moskva, Gos. transp. zhel-dor. izd-vo,  
1958. 179 p.

(MIRA 15:3)

(Railroads--Freight)

TSARENKO, Anatoliy Petrovich; AKSENOV, I.Ya., kand. tekhn. nauk,  
retsenzent; BERNGARD, K.A., prof., doktor tekhn.nauk,  
retsenzent; GITKOVICH, V.K., red.; USENKO, L.A., tekhn.  
red.

[A train takes off] Poezd otpravliaetsia v put'. Moskva,  
Transzheldorizdat, 1962. 141 p. (MIRA 15:10)  
(Railroads)

AKSENOV, Ivan Yakovlevich; BOGDANOV, I.A., inzh., retsenzent; TSARENKO,  
A.P., inzh., red.; USENKO, L.A., tekhn.red.

[Railroad operational indices] Pokazateli ekspluatatsionnoi  
raboty zheleznykh dorog; kratkii spravochnik. Izd.2., perer. i  
dop. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei  
soobshchenia, 1962. 206 p. (MIRA 15:5)  
(Railroads—Management)

AKSENOV, I. Ya., kand. tekhn. nauk

The railroads of Australia. Zhel. dor. transp. 45 no. 1:82-89  
Ja '63. (MIRA 16:4)

(Australia--Railroads)

AKSENOV, I.Ya., kand. tekhn. nauk

Congress on cybernetics held in Belgium. Vest. AN SSSR 35 no.4:  
65-68 Ap '65. (MIRA 18:6)

AKSHNOV, K.P.

Practical work on cattle-breeding farms for students of municipal schools. Politekh. obuch. no.1:59-61 Ja '57. (MLRA 10:4)

1. Iz opyta sredney shkoly no.27 g. Kazani.  
(Agriculture--Study and teaching) (Cattle breeding)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5

AKSENOV, K. F.

Dissertation: "Investigation of the Operating Process of Ejectors of Transport Installations." Cand Tech Sci, Moscow Electromechanical Inst of Engineers of Railroad Transport, Moscow, 1953. (Referativnyy Zhurnal--Mekhanika, Moscow, Apr 54)

SO: SUM 243, 19 Oct 1954

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5"

18(5)

SOV/128-59-9-8/25

AUTHOR:

Ninua, N.Ye., and Kumskov, V.T., and Aksenov K.F.,  
Candidates of Technical Sciences

TITLE:

Regenerative Air Heating in Cupolas

PERIODICAL:

Liteynoye proizvodstvo, 1959, Nr 9, pp 27-29 (USSR)

ABSTRACT:

Utilization of cupola outlet gases represents one of the most important factors in increasing foundry productivity. The Iron Foundry imeni Voykov has introduced an air-heating process whereby the outlet gases having a temperature of 500° - 800°C are passing through a number of balls placed in a cylinder (Fig 6). The air-heater is provided with a rotor that has 12 sectors and serves for rotation of the balls. The optimum diameter of balls may vary from 3 to 10 mm depending on the cleanliness of gases passing through them. The function of the air-heater consists of an alternating admission of hot gases and cool air into the cylinder. The gases entering the air-heater are giving a part of their heat to the balls which, in turn, heat up the air passing through the cylinder. Thus, the gases cool off from 800°C to 250°, while the air becomes heated up to 400° - 420°C. Rotation

Card 1/2

SOV/128-59-9-8/25

Regenerative Air Heating in Cupolas

of balls intensifies the process of heat-exchange between the gases and the balls, and favors the rate of air-heating. At the same time, the air-heater serves as a cleaning medium purifying the cupola outlet gases. There are 4 graphs, 6 diagrams and 2 Soviet references.

Card 2/2

KUMSKOV, V.T., kand.tekhn.nauk; KONAKOV, P.K., doktor tekhn.nauk;  
NIKITIN, Ye.A., inzh.; AKSENOV, K.F., kand.tekhn.nauk;  
GUTKIN, L.V., kand.tekhn.nauk; BOBROVA, Ye.N., tekhn.red.

[Thermal processes in electric and diesel locomotives] Teplo-  
nye protsessy teplovozov i elektrovozov. Moskva, Vses.izda-  
tel'sko-poligr.ob"edinenie M-va putei soobshcheniya, 1960. 178 p.  
(MIRA 13:11)

(Diesel locomotives)

(Electric locomotives)

AKSENOV, L.V.; BASMANOVA, M.D., starshiy ekonomist

Remarkable initiative of V. Fetisov's brigade. Tekst. prgm. 21  
no. 4:72-73 Ap '61. (MIRA 14:7)

1. Nachal'nik otdela truda i zapobotnoy platy fabriki "Osvobozhdennyy  
trud" (for Aksenov).  
(Textile industry--Labor productivity)

AKSENOV, M., nauchnyy sotrudnik

The trolley bus goes outside of the city. Zhil.-kom. khoz. 13 no.3:20-21  
Mr '63.

(Trolley buses)

AKSENOV, M., inzh. (Rostov-na-Donu); TOLUBAYEV, P., inzh. (Rostov-na-  
Donu); RYZHENKO, F., inzh. (Rostov-na-Donu); CHUCHENKO, S., inzh.

Reinforced concrete elements for the repair of buildings.  
Zhil.-kom. khoz. 13 no. 5:18-19 My '63. (MIRA 16:8)

(Precast concrete)  
(Rostov-On-Don—Apartment houses—Maintenance and repair)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5

AKSENOV, M.; CHIRTSOV, M.

Replacing bridges by tubes. Avt.dor. 28 no.10:22 0 '65.  
(MIRA 18:11)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5"

AKSENOV, M. A.

Teplovyye seti ustroystvo, obsluzhivaniye, remont /Heat systems; installation, maintenance, and repair/ Izd. 2 isprav. i dopol. Pod. red. M. B. Perlin. Moskva, Gosenergoizdat, 1953.  
288 p. illus., diagrs., tables.

N/5  
662.41  
.A3

AKSENOV, M. A.

M. A. Aksenov and N. B. Perlin, Temlovye seti (Thermal Networks), Second Edition, amended and supplemented. Edited by N. B. Perlin. Gosenergoizdat.

The booklet gives the fundamentals of thermal energy, its production, and methods of transmission and distribution, and describes the layout of thermal networks, and automatic installations. The operation and maintenance problems of thermal networks are presented in detail.

The book is intended for the operating personnel of thermal networks and heat installations operating on subscription.

SO: Sovetskiye knigi (Soviet Books), No. 183, 1953, Moscow, (U-6472)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5

LYAMIN, A. A., Eng.; AKSENOV, M. A., Eng.

Moscow- Heating from Central Stations

Experience with the operation of underwater central-heating tunnel. Gor.khoz. Mosk.  
27, No. 2, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5"

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5

AKSENOV M.A.

Flushing heating systems using compressed air. Ved.i san.tekh.  
no.9:33-34 S '56. (Radiators) (MIRA 9:10)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5"

AKSEROV, M.A inzhener.

Heat engineering. Tekh.mol.24 no.4;17 Ap '56. (MLRA 9:7)  
(Heating from central stations)

AKSENOV, M. A.

LYAMIN, A.A., inzhener; AKSENOV, M.A., inzhener.

Laying heating pipes over bridges, Gor. Khoz. Mosk. 31 no.2:10-14  
F '57. (MIRA 10x4)  
(Heating pipes)

AKSENOV, Mikhail Alekseyevich; AYZENSHTAT, I.I., red.; VORONIN,  
K.P., tekhn.red.

[Heating systems; installation, operation, and maintenance]  
Teplovye seti; ustroistvo, ekspluatatsiya, remont. Izd.3.,  
perer. i dop. Moskva, Gos. energ. izd-vo, 1958. 327 p.  
(Heating from central stations) (MIRA 11:12)

AKSENOV, M.A., inzh.

Installing heating-pipe ducts in reinforced concrete shells. Gor.  
khoz. Mosk. 34 no.10:36-37 0 '60. (MIRA 13:10)

1. Nachal'nik 7-go rayona Teploseti Mosenergo.  
(Heating pipes)

AKSENOV, M.A., inzh.

Use of MTs-type fans for ventilating heating system chambers and  
tunnels. Energetik 11 no.5:22 My '63. (MIRA 16:7)  
(Heating from central stations--Maintenance and repair)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5

AKSENOV, M.A., inzh.

New design of the glands of hot-water meters. Energetik 11 no.5:  
15-16 My '63. (MIRA 16:7)  
(Water meters)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5"

AKSENOV, Mikhail Alekseyevich. Prinimal uchastiye GROMOV, N.K.,  
kand. tekhn. nauk; SINEL'NIKOVA, L.N., red.

[Heating networks; sources and consumers of thermal energy.  
Installation, maintenance, and repair of networks] Teplovye  
seti; istochniki i potrebiteli tepla. Ustroistvo, obsluzhiva-  
nie i remont setei. Moskva, Energiia, 1965. 351 p.  
(MIRA 18:9)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5

APPROVED FOR RELEASE: 06/05/2000

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CIA-RDP86-00513R000100720006-5



APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5"

APPROVAL NR. APSC13552

Tyumin, B. A., Yel'mov, and A. A. Shavrov reported on the development and testing of biax-type logic circuits operating at 1 Mc and performing several logic operations. Advantages cited are: high s/n ratio, about 20,

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5"

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5

ACCESSION NR: AF5013852

17 14 4 4  
15000 mol % alloys of the cobalt-platinum system. M. A.

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5"

AKSENOV, M. D.

Aksenov, M. D. "Experimental arrhythmia of the frog heart", In the collection: Mo-khanizm patol. reaktsiy, Issues 11-15, Leningrad, 1949, p. 312-19.

SO: U-4392, 19 August 53, (Letopis 'Zhurnal 'nykh Statey, No 21, 1949).

AKSENOV, M. D.

Aksenov, M. D. "The effect of alternating current on the frog heart", In the collection: Mekhanizm patol. reaktsiy, Issues 11-15, Leningrad, 1949, p. 320-29, - Biolich: p. 329.

SO: U-4392, 19 August 53, (Letopis 'Zhurnal 'nykh Statey, No 21, 1949).

AKSENOV, M. D.

Aksenov, M. D. "The effect of the central nervous system on the rhythm of the frog heart", In the collection: Mekhanizm patol. reaktskiy,

Issues 11-15, Leningrad, 1949, p. 330-38.

AKSENOV, M. D.

Aksenov, M. D. "Experimental extrasystole", In the collection: Mekhanizm patol. reaktsiy, Issues 11-15, Leningrad, 1949, p. 339-53, - Bibliog: p. 353.

SO: U-4392, 19 August 53, (Letopis 'Zhurnal 'nykh Statey, No 21, 1949).

AKSENOV, M. D.

Aksenov, M. D. "Heart extrasystole in disturbances to the central nervous system",  
In the collection: Mekhanizm patol. reaktsiy, Issues 11-15, Leningrad, 1949, p. 354-63.

SO: U-4392, 19 August 53, (Letopis 'Zhurnal 'nykh Statey, No 21, 1949).

YAKOVLEV, A.I.; SVIRIDENKO, I.S.; AKSENOV, M.I.

Testing new streetcars and trolley buses. Sbor.nauch.rab.AKKH  
no.13:138-146 '62. (MIRA 16:4)  
(Streetcars—Testing) (Trolley buses—Testing)

AKSENOV, M.I.

Study of the 8TR-8 and ZIU-5 trolley buses under the conditions  
of a mountainous route. Sbor.nauch.rab.AKKh no.13:147-154 '62.  
(MIRA 16:4)

(Trolley buses—Testing)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5

AKSENOV, M. I., inzh.; YAKOVLEV, A. I., kand. tekhn. nauk

Interurban trolleybus transportation in the Crimea. Nov.  
tekh,zhil.-kom.khoz.:Gor.dor,-most,khoz. i transp. no. 2:  
100-116 '63. (MIRA 17:5)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5"

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5

AKSENOV, M.I., kand. tekhn. nauk; KULIKOVSKAYA, N.M., kand. tekhn. nauk

Overvoltage in the electrical equipment of a streetcar. Elektro-  
tekhnika 35 no.11:13-16 N '64. (MIRA 18:6)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5"

AKSENOV, M.I., kand.tekhn.nauk; PALEKHOV, O.N., inzh.

Use of electromagnetic sliding clutch in the driving  
mechanism of universal excavators. Stroi. i dor.mash.  
10 no.12:18-20 D '65.

(MIRA 19:1)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5

*Akseen V. M. S.*

Akseen V. M. S.

Improved gasket for the O-17 electric compressed air paint sprayer.  
Rata. i izobr. predl. v stroi. no.105:12-13 '54. (MLRA 8:10)  
(Spray painting)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5"

AKSENOK, M.V.

Building temporary tread roads using reinforced concrete slabs.  
Avt. dor. 19 no.2:12-13 p '56.  
(Road construction) (MIRA 9:6)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5

AKSENOV, M.V.

Equipment for the ZIL-585 dump truck for long-distance trans-  
portation of concrete mix. Avt.dor.20 no.1:30 Ja '57. (MIRA 10:3)  
(Dump trucks) (Concrete--Transportation)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100720006-5"

AKSENOV, M.Ya.

Improved photoplate holders for the EMZ electron microscope. Prib.1  
tekhn.eksp. 6 no.5:191 S-0 '61. (MIRA 14:10)

1. Tsentral'naya aerologicheskaya observatoriya.  
(Electron microscope—Equipment and supplies)

AKSENOV, M. Ya.

Attachment adjusting film with objects in the object holder  
of an EM-3 electron microscope. Trudy TSAO no. 51:69-70 '63.  
(MIRA 17:5)

AKSENOV, M. Ya.; VERNIDUB, I. I.; KARTSIVADZE, A. I.; OKUDZHAVA, A. M.;  
PLAUME, N. O.; SHISHMINTSEV, V. V.

Study of the ice-forming activity of silver iodide aerosol  
generated in the burning process of pyrotechnical compositions.  
Trudy Inst. geofiz. AN Gruz. SSR 20:197-204 '62.  
(MIRA 16:1)

(Silver iodide) (Atmospheric nucleation)

ACCESSION NR: AT4040007

S/2789/63/000/051/0029/0032

AUTHOR: Aksenov, M. Ya.; Plaude, N. O.

TITLE: Influence of ultraviolet radiation on the ice-forming activity of a lead iodide aerosol

SOURCE: Tsentral'naya aerologicheskaya observatoriya. Trudy, no. 51, 1963, 29-32

TOPIC TAGS: meteorology, weather modification, cloud seeding, lead iodide, silver iodide, aerosol, ice formation, ultraviolet radiation

ABSTRACT: Many studies have been made of the deactivation of the ice-forming capability of a silver iodide aerosol under the influence of solar and ultraviolet radiation, but the influence of such radiation on a lead iodide has been little studied. Such experiments have now been made, parallel with experiments with silver iodide. Fig. 1 of the Enclosure shows the particle-size distribution in the investigated aerosols. The source of UV radiation was a PRK-2 mercury-quartz lamp. The experiments, each of which was repeated 3-7 times under identical conditions, are described in detail. The results of measurements in the form of the production of ice crystals per gram of reagent are shown in Fig. 2 of the Enclosure. The solid lines show the change in the quantity of active particles with time without

Card 1/4

ACCESSION NR: AT4040007

exposure to radiation and the dashed lines the particles remaining active after exposure to UV radiation. The figure also shows the mean square errors in measurements. It is shown that a silver iodide aerosol is deactivated intensively under the influence of UV radiation. After 20 minutes exposure its activity is only 1/18th of an unexposed aerosol. Lead iodide is much less sensitive, decreasing in the same time by a factor of only 2. Orig. art. has: 2 figures.

ASSOCIATION: Tsentral'naya aerologicheskaya observatoriya (Central Aerological Observatory)

SUBMITTED: 00

ENCL: 02

SUB CODE: ES

NO REF Sov: 003

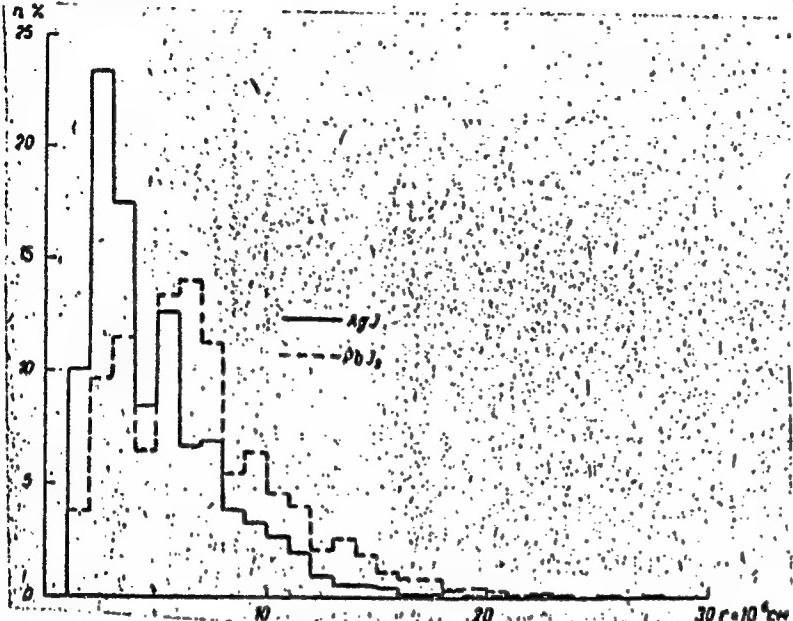
OTHER: 004

Card

2/4

ACCESSION NR: AT4040007

ENCLOSURE: 01



Card

3/4

Fig. 1. Particle-size distribution of AgI and PbI<sub>2</sub>.aerosols.

ACCESSION NR.: AT4040007

ENCLOSURE: 02

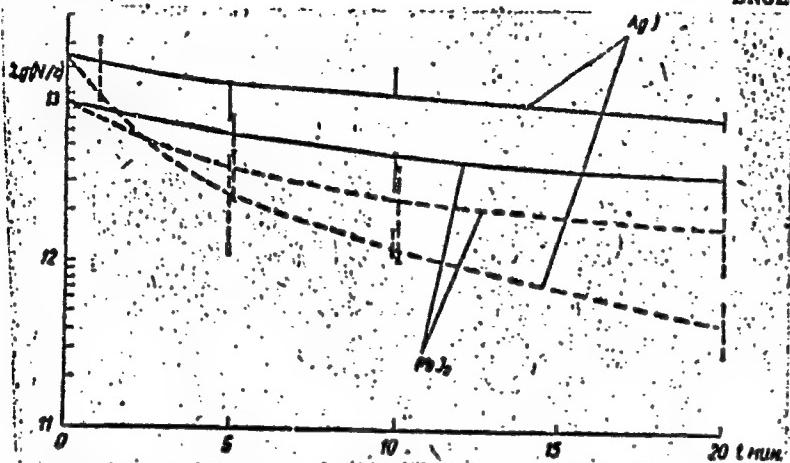


Fig. 2. Number of AgI and PbI<sub>2</sub> particles per gram of substance remaining active after being exposed for time  $t$  in an aerosol chamber, either without exposure to radiation (solid curve) or with exposure to ultraviolet radiation (dashed curves).

Card 4/4

L 21794-66 EWT(1)/EMA(h) GW  
ACC NR: AP6002922 (N)

SOURCE CODE: UR/0286/65/000/024/0083/0083

AUTHORS: Naumenko-Bondarenko, I. I.; Gorin, V. P.; Usacheva, A. M.; Stepin, M. D.;  
Yurkovetskiy, S. G.; Aksenov, M. Zai Yefremov, V. V.; Kolentsev, A. M.; Baryshev,  
Yu. M.; Led'ina, V. M.; Fel'dman, Yu. S.

ORG: none

TITLE: A ground gravimeter Class 42, No. 177106

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 83

TOPIC TAGS: gravimetric analysis, measuring instrument, measurement accuracy  
gravimeter

ABSTRACT: This Author Certificate presents a ground gravimeter containing a quartz elastic sensitive system, units of distance control and control of the rotation angle of a micrometric screw, and an assembly of a photoelectric device with an illuminator. The design increases the precision of the measurements and makes possible the determination of the errors of the distance transmission. The unit of distance control in the gravimeter has precision multiple-turn linear potentiometers interconnected in a bridge circuit. One of the potentiometers is mounted in the gravimeter and the other on a control panel. The rotors of these potentiometers are connected with a tachometer. To reduce the temperature effects on the quartz sensitive system, the latter system is insulated from the photoelectric device.

SUB CODE: 08/ SUBM DATE: 21Jan64  
Cord 1/1 UL

UDO: 550,631

SHAVKUNOV, A.V., inzh.; AKSENOV, N.A., inzh.: MUGORMAN, Yu. N., inzh.;  
KOLCHINSKIY, V.I., inzh.; Prinimali uchastiye: KORNEYEVA, M.P., inzh;  
CHERNOV, V.I., inzh.; MARKAROV, S.Ye., inzh.; SAYMUKOVA, Ye.P., inzh;  
LUKASH, B.K., starshiy master; TITOV, S.A., svarshchik; BEREZOVSKIY, V.A.

Welding titanium alloys in chambers with a controlled atmosphere.  
Svar. proizv. no.4:24-25 Ap'61. (MIRA 14:3)  
(Titanium alloys- Welding) (Protective atmospheres)

AKSENOV, N.; SOLOMAKHIN, M.

Meat combines of the Orel Province are expanding. Mias. ind.  
SSSR 31 no.5:22-23 '60. (MIRA 13:9)

1. Orlovskiy sovnarkhoz (for Solomakhin).  
(Orel Province--Packing houses)

AKSENOV, N.; SOLOMAKHIN, M.

Experts show initiative. Mias.ind.SSSR '32 no.2:22 '61.  
(MIRA 14:7)

1. Orlovskiy sovnarkhoz.  
(Mtsensk--Meat industry)

AKSENOV, N., dotsent kand.tekhn.nauk (Bryansk)

Motion pictures and industrial hygiene. Okhr.truda i sots.  
strakh. 5 no. 12:22 D. '62. (MIRA 16:2)  
(Motion pictures in industry)  
(Industrial hygiene)

1.2300

20227

S/135/61/000/004/006/012  
A006/A101

AUTHORS: Shavkunov, A. V., Aksenov, N. A., Mugerman, Yu. N., Kolchinskiy,  
V. I. Engineers

TITLE: Welding of Titanium Alloys in Chambers with Controlled Atmosphere

PERIODICAL: Svarochnoye proizvodstvo, 1961, No. 4, pp. 24 - 25

TEXT: The high chemical activity of titanium and its alloys requires careful protection of the weld and the weld-adjacent zone against the gaseous atmosphere. When welding parts of complex contours it is recommended to carry out welding in special chambers. Information is given on manual argon arc welding of titanium-alloy and titanium parts in chambers of two types. Chamber No. 1 is a 0.05 m<sup>3</sup> 1Kh18N9T steel cylinder of 1,300 mm internal diameter and 400 mm height. The cylinder top represents a cover fastened with bolts. The chamber is placed on a rotary table and can be rotated around the horizontal axis. In the top and in the walls there are plexiglass windows and apertures for fastening the rubber welding gloves. The chamber is equipped with electric light. The welding burner is fed through a cable which enters the chamber through a special hermetic inlet. The burner is a holder with a tungsten electrode. The absence of a nozzle

Card 1/4

20227

S/135/61/000/004/006/012  
A006/A101

**Welding of Titanium Alloys in Chambers with Controlled Atmosphere**

permits the access to any welding area. The chamber is connected with a vacuum pump, an argon cylinder and an oil manometer. The feed system and the electric circuit are given in Fig. 2 and 3. Chamber No. 2 is made of 15 mm thick "20" grade steel and differs from chamber No. 1 by larger dimensions, which makes it possible to weld large-size parts. The dimensions are: 2100 mm diameter; 600 mm height;  $1.8 \text{ m}^3$  volume. Two parallel operating vacuum pumps are employed. The vacuum up to  $3.10^{-2} \text{ mm Hg}$  is produced within 120 - 150 min. Gas consumption for washing is about  $2.5 \text{ m}^3$ . Prior to operation the chamber is blown through with compressed air and rubbed with an alcohol-wetted rag. To fill the chamber, argon of first composition is employed containing not over 0.005% oxygen and not over 0.1% nitrogen. Locksmith tools, base material technological plates and BT-1(VT-1) 2 mm-diameter titanium wire are then placed into the chamber and the cover is fastened. After evacuation argon is fed into the chamber at a pressure not less than 0.2 atm. During welding process 1 - 3 l/min argon are supplied into the chamber. Parts of commercial VT-1 titanium, OT-4 and BT-5 (VT-5) titanium alloys can be welded. VT-1 filler wire is employed, which is dehydrogenized in a vacuum of  $10^{-3} \text{ mm Hg}$  by heating to  $950^\circ\text{C}$ . Welding in the described chambers produces high-quality weld joints, whose strength is equal to that of the base metal. The

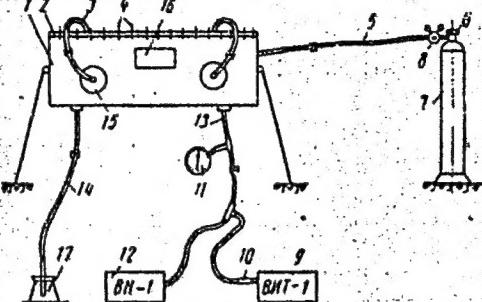
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bending angle is 160 - 180°. The present article was composed with the participation of engineers M. P. Korneyev, V. I. Chernov, S. Ye. Makarov, Ye. P. Saymukova, senior master B. K. Lukash, welding operators S. A. Titov and V. A. Beregovskiy. There are 3 figures.

**Figure 2:** Diagram of feeding the chamber for welding in shielding gas: 1 - body of the chamber; 2 - cover; 3 - hose connecting the chamber with the gloves; 4 - bolts; 5 - hose connecting the chamber with the cylinder; 6 - cylinder valve; 7 - argon cylinder; 8 - PK-53 (RK-53) reductor; 9 - BHT-1 (VIT-1) thermo-vacuummeter; 10 - SIM-2 (IM-2) or JT-4M (LT-4M) tube; 11 - monovacuummeter; 12 BH-1 (VN-1) vacuum pump; 13 - hose, connecting the chamber with the pump; 14 - hose connecting the chamber with the bull-bar; 15 - cover for the glove; 16 - window with protecting glass; 17 - bull-bar



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AKSENOK, N.A.; ROYTMAN, M.Ya., kand. tekhn. nauk, rukovoditel' diplomnogo proyekta

Map of the fire hazards of technological processes. Pozh. bezop.  
no.3:3-8 '64.

Bases of the initial data for the design of fireproof curtains.  
Ibid.:47- (MIRA 18:5)

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AKSENOV, N.

It is necessary to work out methods for carrying out every operation.  
Sots.trud no.8:126 Ag '57. (MLRA 10;9)

1. Zaveduyushchiy tekhniko-normirovochnym byuro tsekha storki i  
ispytaniya motorov Gor'kovskogo avtozavoda.  
(Production standards)